PRECISION

WEATHER

INSTRUMENTS

NEW!

Vantage Pro™ Wireless Weather Station

With forecasting, on-screen graphing, multi-function display, and much more. . . pg. 2

2001 CATALOG

Davis Instruments

ENVIRONMENTAL INFORMATION FOR HOME & INDUSTRY

Dear Friends,

We're proud to announce a whole new weather line with the most-asked-for features—including your local forecast!

Our new, large LCD display—shown full size on these two pages—shows multiple weather variables at once. But we didn't stop there. We're also introducing four new wireless "mini stations" that let you add more of the sensors you're most interested in—giving you the flexibility you need at the price you want.

Look for the following logos throughout the catalog:

DAVIS TALK Identifies items that use our proprietary wireless protocol. Mix and match them to create the system that suits your needs.

NIST See page 14 Identifies the stations or sensors that are NIST-traceable. See page 14 for details.

As always, please contact one of our customer service representatives if you have any questions. We're always glad to help.

(800) 678-3669 Toll-Free Order Line, Monday through Friday, 7:00 a.m. to 5:30 p.m. Pacific Time. Our representatives can answer most questions and assist you with your purchase.

(510) 732-9229 For callers outside the USA or Canada.

(510) 732-7814 For answers to technical questions or help with trouble-shooting.

(510) 670-0589 Fax to Customer Service or Tech Support.

(510) 293-3548 Automated fax-back service for copies of detailed product specification sheets. Twenty-four hours a day, seven days a week.

www.davisnet.com Visit our web site.

sales@davisnet.com E-mail to Customer Service.

support@davisnet.com E-mail to Technical Support.

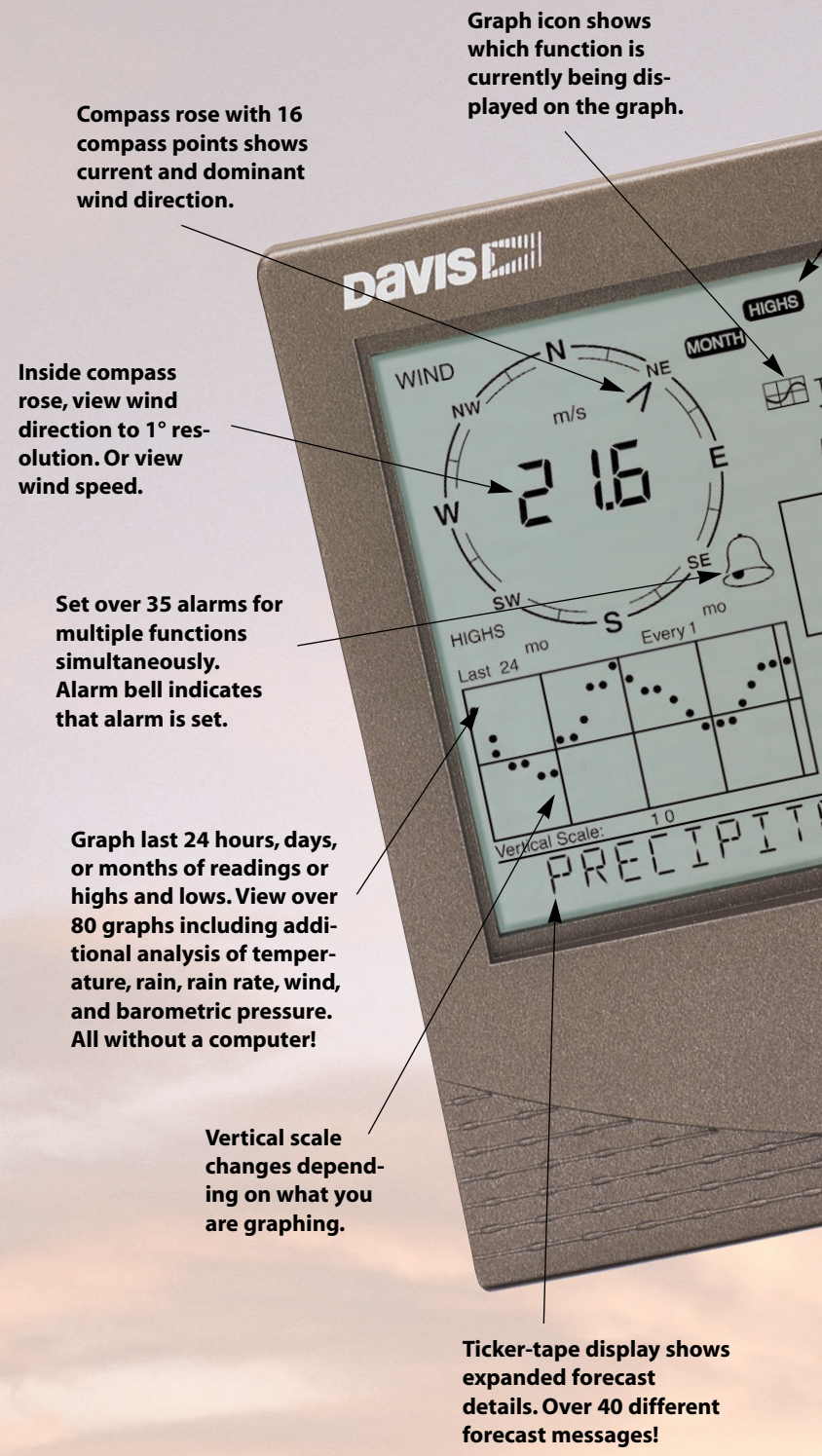
info@davisnet.com General e-mail.

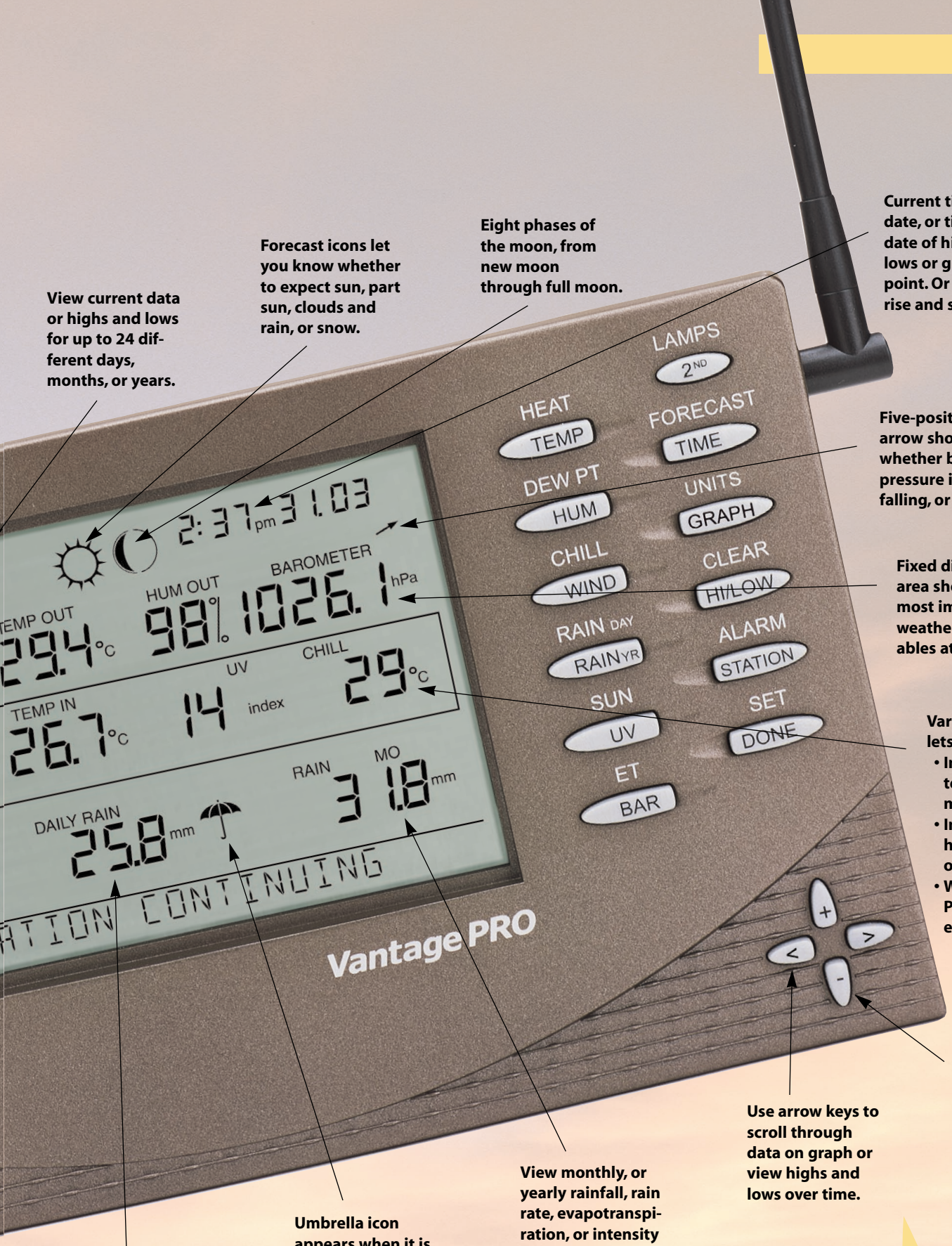
30-Day Money-Back Guarantee

If for any reason you are unsatisfied with anything purchased from us, return it within 30 days and we will gladly refund your purchase price. Shipping charges are not refundable. This guarantee does not apply to opened software packages.

Anemometers are wind-tunnel tested in our California factory.

New! The latest in weather technology! Our Vantage Pro™ weather stations offer forecasting, on-screen graphing, and much more—all on a large 3½" x 6" (90 x 150 mm) LCD display. Quick-view icons show the forecast at a glance—sunny, partly sunny, cloudy, rain or snow—while a moving ticker-tape display gives more details. Mostly clear with little temperature change? Increasing clouds and cooler with precipitation within four to six hours? Whatever the forecast, Vantage Pro will let you know. Backlit display for easy viewing. Mounts on desk, shelf, or wall. U.S. and metric units of measure.


Graph icon shows which function is currently being displayed on the graph.
Compass rose with 16 compass points shows current and dominant wind direction.
Inside compass rose, view wind direction to 1° resolution. Or view wind speed.
Set over 35 alarms for multiple functions simultaneously. Alarm bell indicates that alarm is set.
Graph last 24 hours, days, or months of readings or highs and lows. View over 80 graphs including additional analysis of temperature, rain, rain rate, wind, and barometric pressure. All without a computer!
Vertical scale changes depending on what you are graphing.
Ticker-tape display shows expanded forecast details. Over 40 different forecast messages!
davis
WIND
m/s
N
NE
E
SE
S
SW
W
NW
HIGHS
MONTH
HIGHS
Last 24
mo
Every 1
mo
Vertical Scale:
10



View current data or highs and lows for up to 24 different days, months, or years.

Forecast icons let you know whether to expect sun, part sun, clouds and rain, or snow.

Eight phases of the moon, from new moon through full moon.

Current time and date, or time and date of highs and lows or graphed data point. Or time of sunrise and sunset.

Five-position trend arrow shows whether barometric pressure is rising, falling, or stable.

Fixed display area shows the most important weather variables at all times.

Variable display area lets you pick between:

- Inside or additional temperatures or soil moisture
- Inside or additional humidity, UV Index, or leaf wetness
- Wind Chill, Dew Point, or two different Heat Indices

Plus and minus keys simplify data entry.

Use arrow keys to scroll through data on graph or view highs and lows over time.

View monthly, or yearly rainfall, rain rate, evapotranspiration, or intensity of solar radiation.

Umbrella icon appears when it is currently raining.

View daily rain, or rain for this storm.

Turn the page for more details!

Vantage Pro™ weather stations are available in two models: wireless and cabled. Each includes our innovative integrated sensor suite, which combines our rain collector, temperature and humidity sensors, and anemometer all into one package—making setup easier than ever and improving performance and reliability. Customize your weather station by adding consoles or one or more of the special-purpose stations shown on the following pages. Up to eight wireless transmitters can report to a single console. Because regulations vary, Wireless Vantage Pro and Wireless Vantage Pro Plus may not be available outside the USA.

New!

Vantage Pro features at a glance

Vantage Pro includes all of the following:

- Barometric Pressure
- Forecast
- Inside & Outside Temperature
- Inside & Outside Humidity
- Heat Index
- Dew Point
- Moon Phase
- Rainfall for minutes, hours, days, month, year, and storm
- Rainfall totals for last 24 storms
- Rain Rate for minutes, hours, days, and months
- Wind Direction & Speed
- Wind Chill
- Time & Date
- Time of Sunrise & Sunset

With a Solar Radiation Sensor, you also get:

- Evapotranspiration for day, month, and year
- Solar Radiation Intensity
- Temp-Hum-Sun-Wind Index

With a UV Sensor, you also get:

- UV Dose
- UV Index

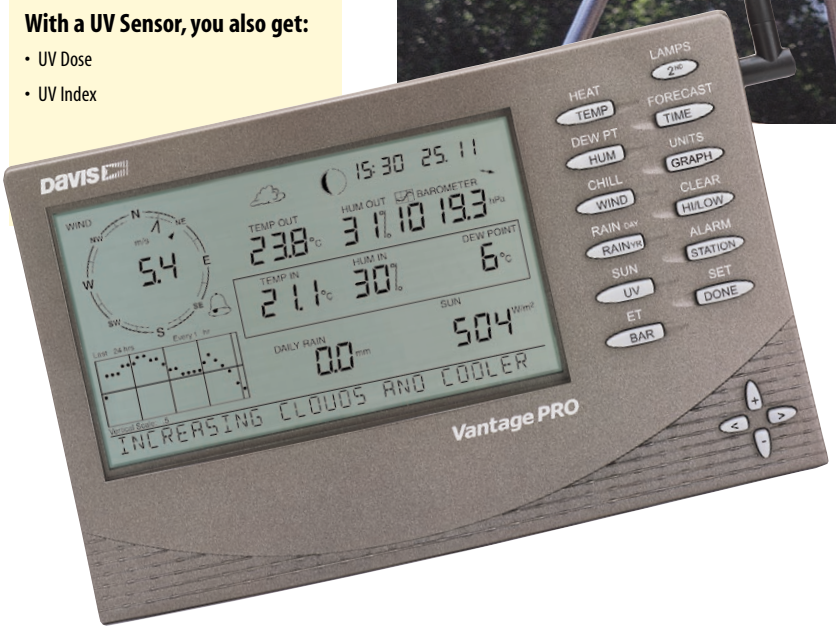
Anemometer is detachable for ultimate flexibility—mount with integrated sensor suite as shown, or mount separately using the included 40' (12 m) cable. Or, with Wireless Vantage Pro, add an Anemometer Transmitter Kit to transmit data directly to the console.

Rain collector with self-emptying tipping bucket is exceptionally accurate. Read rainfall amounts in 0.01" or 0.25 mm increments.

Wireless integrated sensor suite runs on solar power. Provides enough power to run the station with as little as one hour of sunlight a day. (Solar panel is not included with cabled version.)

Temperature and humidity sensors are located inside the radiation shield. The shield protects the sensors from solar radiation and other sources of radiated and reflected heat.

Optional tripod makes installation even easier. Brackets at the base of legs tilt to mount on roof or uneven terrain.



Competition Beater!

Compare Vantage Pro to the competition. You'll find that Vantage Pro offers:

- A more frequent update interval—every 2.5 seconds, compared to the 3 to 15 minutes found on other stations.
- Sophisticated forecasting algorithm. Takes wind and temperature into account—not just barometric pressure!
- Greater range for wireless transmission—up to 800' (250 m)—even further with wireless repeaters!
- Over 80 graphs and over 35 alarms available on the console versus only a few on other stations.

Flexible mounting options let you detach the anemometer for mounting on a fence post, mast, or other vertical surface up to 40' (12 m) away.

Vantage Pro

Includes console with AC-power adapter, integrated sensor suite with 40' (12 m) anemometer cable, and mounting hardware. Cabled version also includes a 100' (30 m) cable connecting the console to the integrated sensor suite. Wireless version includes console/receiver plus integrated sensor suite with transmitter, solar panel, 40' (12 m) anemometer cable, and mounting hardware. Wireless range is up to 800' (250 m) line of sight. Typical range under most conditions is 150' to 500' (45 to 150 m). Add wireless repeaters for distances up to one mile (1.5 km). Console may be powered using the included AC-power adapter or with three C batteries (not included). Batteries lasts up to one year under normal conditions.

DAVIS TALK NIST See page 14

6150C Cabled Vantage Pro
6150 Wireless Vantage Pro

Vantage Pro Plus

Adds Solar Radiation and UV sensors—making Vantage Pro Plus our most comprehensive station. Includes all of the features of Vantage Pro plus UV and solar radiation sensors and sensor mounting shelf. These sensors and bracket cost $535 if purchased separately. You save $135 with this special package. Available in both cabled and wireless models.

6160C Cabled Vantage Pro Plus
6160 Wireless Vantage Pro Plus

DAVIS TALK NIST See page 14

Vantage Pro with Fan-Aspirated Radiation Shield

When accuracy of temperature readings is critical choose any of our Vantage Pro stations with Fan-Aspirated Radiation Shield. Fan-aspirated shield combines active and passive aspiration to minimize the effects of radiation. Available in cabled and wireless models.

DAVIS TALK NIST See page 14

6151C Cabled Vantage Pro with AC-Power Fan-Aspirated Radiation Shield
6151 Wireless Vantage Pro with Solar-Power Fan-Aspirated Radiation Shield
6161C Cabled Vantage Pro Plus with AC-Power Fan-Aspirated Radiation Shield
6161 Wireless Vantage Pro Plus with Solar-Power Fan-Aspirated Radiation Shield

Wireless Options

Wireless options allow you to build your own customized weather station. Select any combination of Temperature Stations, then view the data on one or more Vantage Pro or Weather Echo (see page 8) console/receivers. Or add additional wireless stations or console/receivers to a wireless Vantage Pro station. Up to eight transmitters can report to a single console, while a virtually unlimited number of consoles can receive data from a single transmitter.

New!

Vantage Pro Console/Receiver

To view data from a Wireless Vantage Pro in additional locations, or for use with Wireless Temperature, Temperature/Humidity, Leaf Wetness/Temperature, or Soil Moisture/Temperature Stations. Includes all of the features shown on pages 2–3.

DAVIS TALK NIST See page 14

6310 Vantage Pro Console/Receiver

Wireless Temperature Station

Includes stainless steel temperature probe with 12' (3.6 m) cable, transmitter, and battery inside weather-resistant shelter. Data may be viewed on Vantage Pro console/receiver, Weather Echo, or Weather Echo Plus, and WeatherLink. Lithium battery lasts up to one year under normal conditions.

DAVIS TALK NIST See page 14

6370 Wireless Temperature Station with Battery Power

Transmitting Stations

Vantage Pro Console/Receiver can receive data from up to 8 transmitting stations. The maximum number for each station type is shown below.

Transmitting Station	Maximum #
Integrated Sensor Suite from Wireless Vantage Pro Station	1 of 8
Anemometer Transmitter Kit	1 of 8
Leaf Wetness/Temperature Station	1 of 8
Soil Moisture/Temperature Station	1 of 8
Temperature Station	up to 8 of 8
Temperature/Humidity Station	up to 8 of 8

Anemometer Transmitter Kit

For use with Wireless Vantage Pro. To locate the anemometer away from the integrated sensor suite. Includes transmitter inside weather-resistant shelter, solar panel, and battery.

DAVIS TALK

6330 Anemometer Transmitter Kit

Wireless Temperature/Humidity Station

Includes temperature/humidity sensor and transmitter inside radiation shield, and battery. Data may be viewed on Vantage Pro console/receiver, Weather Echo, or Weather Echo Plus, and WeatherLink.

DAVIS TALK NIST See page 14

6380 Wireless Temperature/Humidity Station with Battery Power
6385 Wireless Temperature/Humidity Station with Fan-Aspirated Radiation Shield

Wireless Soil Moisture/Temperature Station

Includes Watermark® soil moisture sensor with 15' (4.6 m) cable, stainless steel temperature probe with 15' (4.6 m) direct burial cable, transmitter inside weather-resistant shelter, solar panel, and battery. Temperature probe can be used to measure air, soil, or water. Add up to three more soil moisture sensors and three more temperature probes. Data may be viewed on Vantage Pro console/receiver and WeatherLink.

6361 Wireless Soil Moisture/Temperature Station
6440 Additional Soil Moisture Sensors
6470 Additional Multi-Purpose Temperature Probes

DAVIS TALK NIST See page 14

Wireless Leaf Wetness/Temperature Station

Includes leaf wetness sensor with 40' (12 m) cable, temperature sensor with 40' (12 m) cable, transmitter inside weather-resistant shelter, solar panel, and battery. Temperature sensor can be used to measure air, soil, or water. Add up to three more leaf wetness sensors and three more temperature sensors. Data may be viewed on Vantage Pro console/receiver and WeatherLink.

6341 Wireless Leaf Wetness/Temperature Station
6420 Additional Leaf Wetness Sensors
6460 Additional Temperature Sensors

DAVIS TALK NIST See page 14

Solar Radiation Sensor

To measure solar radiation. Also required (along with an anemometer and a temperature/humidity sensor) if you wish to monitor evapotranspiration. Diffuser element and housing are carefully designed for accurate cosine response. Silicon photo diode provides good match to solar spectrum. Two-piece housing minimizes radiation heating, allows convection cooling of the sensor, and prevents the trapping of water or dust. Includes built-in level and 3' (0.9 m) cable. To mount on integrated sensor suite, add our optional Sensor Mounting Shelf shown on page 10. To mount away from the sensor suite, add an optional extension cable.

6450 Solar Radiation Sensor with 3' (0.9 m) cable
Use Standard 4-Conductor Extension Cable. Maximum cable length is 125' (38 m) from sensor to integrated sensor suite. 7876-040 Cable, 40' (12 m) 7876-100 Cable, 100' (30 m)

UV Sensor

Measures the sunburning portion of the UV spectrum. Allows you to display UV index, dose rate, and daily and accumulated dose. Multi-layer filter provides a spectral response that closely matches the Erythema Action Spectrum. Diffuser provides excellent cosine response. Two-piece housing minimizes radiation heating, allows convection cooling of the sensor, and prevents the trapping of water or dust. Includes 3' (0.9 m) cable. To mount on integrated sensor suite, add our optional Sensor Mounting Shelf shown on page 10. To mount away from the sensor suite, add an optional extension cable.

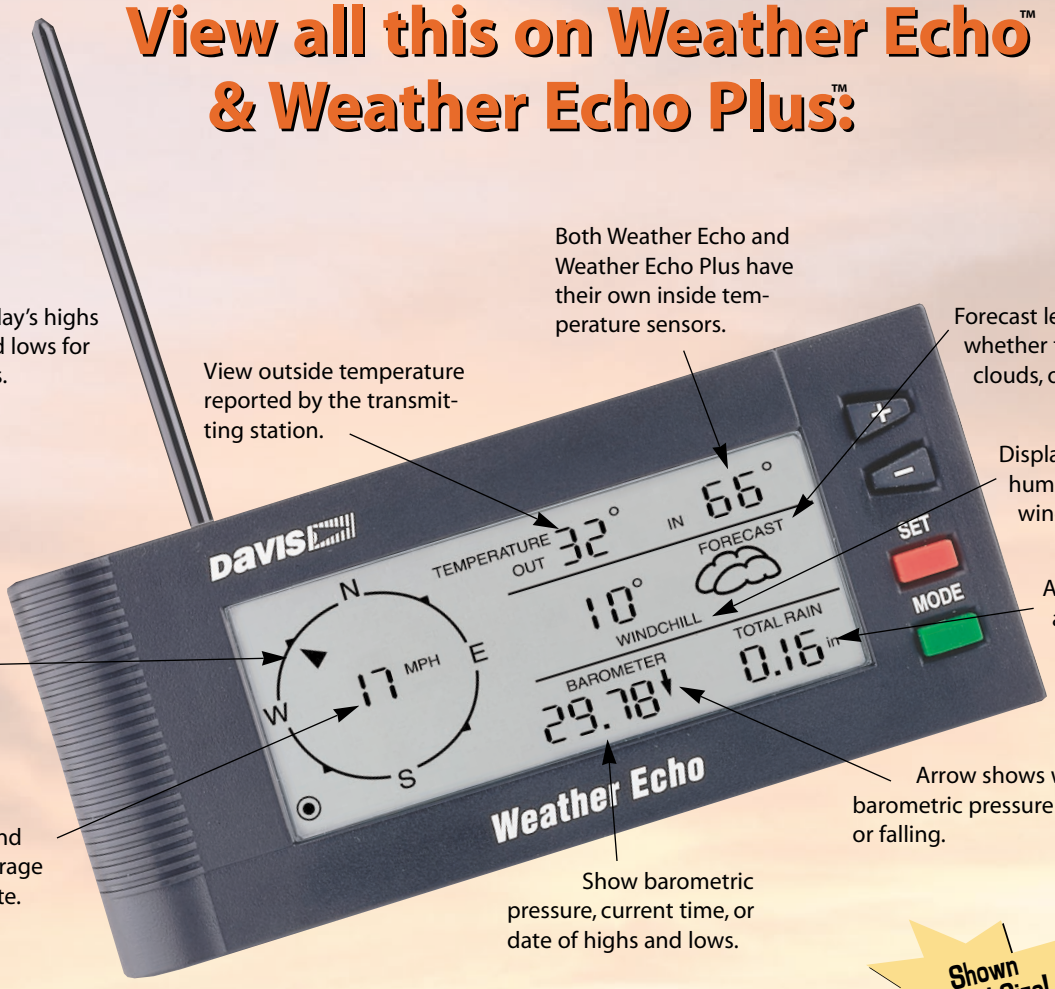
6490 UV Sensor with 3' (0.9 m) cable
Use Standard 6-Conductor Extension Cable. Maximum cable length is 125' (38 m) from sensor to integrated sensor suite. 7878-040 Cable, 40' (12 m)

Weather Echo

Take the weather with you, wherever you go. Our wireless Weather Echo and Echo Plus receive and display data from any of our wireless transmitters. Compact design fits easily on desk, countertop, or table—even in your shirt pocket. Selectable ID code matches one of eight possible transmitting stations. Change the code to display data from a different transmitter, or add additional Weather Echos or Echo Pluses to display data from more than one transmitter. Receiving range is up to 400' (120 m) line of sight. Typical range under most conditions is 100' to 200' (30 to 60 m) depending on the terrain and the structural features of the building. Measures just 5¼" × 2¼" × ⅞" (132 mm × 57 mm × 22 mm). U.S. and metric units of measure.

New! Works with Vantage Pro!

View all this on Weather Echo™ & Weather Echo Plus™:



View current data, today's highs and lows, or highs and lows for each of the last 7 days.

Both Weather Echo and Weather Echo Plus have their own inside temperature sensors.

Forecast lets you know whether to expect sun, rain, clouds, or a combination.

View outside temperature reported by the transmitting station.

Display inside or outside humidity, dew point, or wind chill.

Compass rose shows wind direction at a glance.

Alternate between daily and total rainfall, or pick one to display continuously.

Show current wind speed or the average for the last minute.

Arrow shows whether barometric pressure is rising or falling.

Show barometric pressure, current time, or date of highs and lows.

Shown Actual Size!

Weather Echo's sophisticated forecasting algorithm takes into account:

- Barometric pressure and trend
- Prevailing wind direction and speed
- Whether or not it is currently raining
- Northern and southern hemispheres
- The time of year

Weather Echo™

Includes console with inside temperature sensor, adjustable stand for use on desk or shelf, wall-mount bracket, and three-volt lithium battery. Battery lasts up to one year under normal conditions.

DAVIS TALK NIST See page 14

7602 Weather Echo

Weather Echo Plus™

Includes all the features of Weather Echo plus backlit display for easy viewing and inside humidity sensor. AC-power adapter allows continuous use of backlighting.

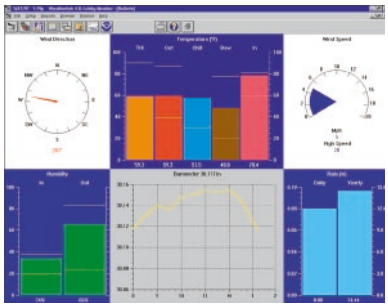
DAVIS TALK NIST See page 14

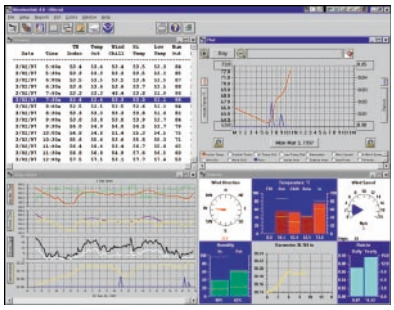
7603 Weather Echo Plus

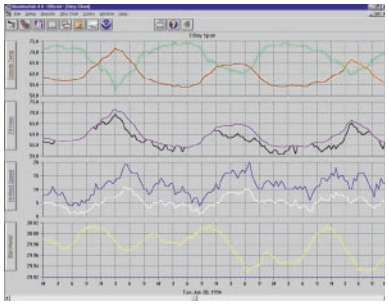
For the ultimate in weather data collection, analysis, and display, connect Vantage Pro to your personal computer. The WeatherLink data logger fits neatly into the Vantage Pro console, storing your weather data even when the computer is off. Transfer data to the PC when you like—every minute or every six months. Later, use the WeatherLink software to create graphs, generate summaries, and more—all with your own weather database.

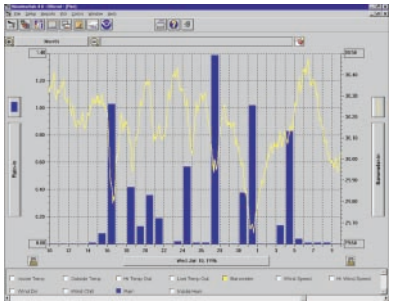
WeatherLink's newest feature lets you share your weather with the world on your own weather web site. Use one of our sample templates or design your own. WeatherLink software establishes the Internet connection and transfers the files using FTP.

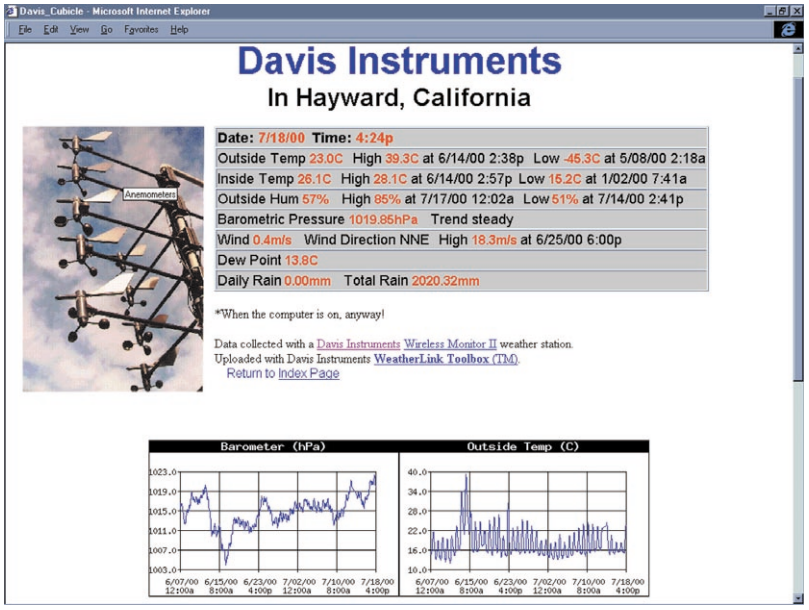
data logger










Davis_Cubicle - Microsoft Internet Explorer
File Edit View Go Favorites Help
Davis Instruments
In Hayward, California
Anemometers
Date: 7/18/00 Time: 4:24p
Outside Temp 23.0C High 39.3C at 6/14/00 2:38p Low -45.3C at 5/08/00 2:18a
Inside Temp 26.1C High 28.1C at 6/14/00 2:57p Low 15.2C at 1/02/00 7:41a
Outside Hum 57% High 85% at 7/17/00 12:02a Low 51% at 7/14/00 2:41p
Barometric Pressure 1019.85hPa Trend steady
Wind 0.4m/s Wind Direction NNE High 18.3m/s at 6/25/00 6:00p
Dew Point 13.8C
Daily Rain 0.00mm Total Rain 2020.32mm
*When the computer is on, anyway!
Data collected with a Davis Instruments Wireless Monitor II weather station.
Uploaded with Davis Instruments WeatherLink Toolbox (TM).
Return to Index Page
Barometer (hPa)
Outside Temp (C)

Actual screens may vary.

With WeatherLink you can:

- See current conditions at a glance on the instant weather bulletin.
- Graph data on a daily, weekly, monthly, or yearly basis.
- Generate Weather Watcher reports in National Climatic Data Center (NOAA) format.
- Track information from multiple weather stations on the same computer using one WeatherLink for each weather station.
- View information from the same weather station on two or more computers using an Extra User License for each computer. Kit includes license, manual, and software.

With the integrated FTP and HTML features you can:

- Post current and historical weather conditions to your web site or LAN.
- Create weather web pages with our included HTML templates, or design your own.
- Add bar graphs, line graphs, text lines, or scrolling ticker tape displays with included Java applet.
- Upload other files—such as images from a webcam—along with your weather data.

With the data storage and transfer features you can:

- Choose a storage interval of 1, 5, 10, 15, 30, 60, or 120 minutes.
- Store up to six months worth of data, depending on the chosen storage interval. The data logger uses non-volatile memory, so you won't lose the data in the logger, even if you lose power.
- Transfer data from the data logger to your computer as often as you like to create your own weather database.
- Transfer data and clear highs and lows automatically each day. (The software must be running to use this feature.)

6510C WeatherLink for Vantage Pro
6510X Extra User License Kit

All of the following are included:

- Software on 3½" disk
- Data logger
- Detailed instruction booklet
- 8' (2.4 m) cable to connect the data logger to your computer

Windows™ version requirements:

- Computer running Windows 95/98/2000 or NT 4.0
- At least 5MB free hard disk space
- 4MB RAM
- One free serial port
- Mouse recommended

Mac software available mid-2001

Printer requirements:

- Most printers are supported

Telephone Modem Adapter

For transmission of data from the WeatherLink data logger using a modem.

7870 Telephone Modem Adapter

Complete System Shelter

To locate your Vantage console outside. Use when installing a remote or field station. Weather-resistant NEMA 4X enclosure provides protection from the elements. Dimensions: 15½" × 7¾" × 13½" (395 × 195 × 345 mm).

7724 Complete System Shelter

Complete System Shelter with Cabled Vantage Pro console.

Complete System Shelter Heater

For use in cold climates. Use if you expect temperatures below 0° F (–18° C) or if condensation is a problem. Includes 24-watt, 24-volt heater with thermal cut-off switch, control unit, insulating reflective blanket, and AC-power adapter.

7726 Complete System Shelter Heater with 50' (15 m) cable
Use Shielded 2-Twisted Pair Extension Cable. Maximum cable length is 120' (36 m).
7884-050 Cable, 50' (15 m) 7884-100 Cable, 100' (30 m)

Rain Collector Heater

For use in cold climates to measure freezing rain or the moisture content of snowfall. Includes 24-watt, 24-volt heater with thermal cutoff switch, control unit, insulating reflective blanket, and AC-power adapter.

7720 Rain Collector Heater with 50' (15 m) cable
Use Shielded 2-Twisted Pair Extension Cable. Maximum cable length is 120' (36 m).
7884-050 Cable, 50' (15 m) $28 7884-100 Cable, 100' (30 m)

Sensor Mounting Shelf

For use with Solar Radiation Sensor and/or UV Sensor. Easily attaches to integrated sensor suite. Made of powder-coated aluminum.

6672 Sensor Mounting Shelf

Extension Cables

- From Cabled Vantage Pro integrated sensor suite to console. Maximum cable length is 1000' (305 m). Forty-foot (12 m) cable is included with the station.
- From anemometer to integrated sensor suite. Maximum length is 540' (165 m). Forty-foot (12 m) cable is included with the station.

Standard 4-Conductor Extension Cables
7876-008 Cable, 8' (2.4 m) 7876-040 Cable, 40' (12 m)
7876-100 Cable, 100' (30 m) 7876-200 Cable, 200' (61 m)

Mounting Pole Kit

Optional Mounting Pole Kit includes one pole 19½" (495 mm) long and one 21" (533 mm) long, each with a 1 5/16" (33 mm) outside diameter, plus connector to make a single 37½" (952 mm) long pole.

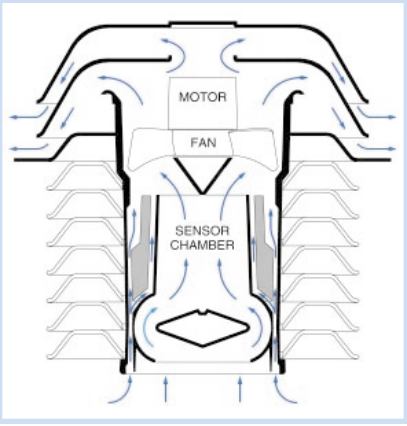
7717 Mounting Pole Kit

Mounting Tripod

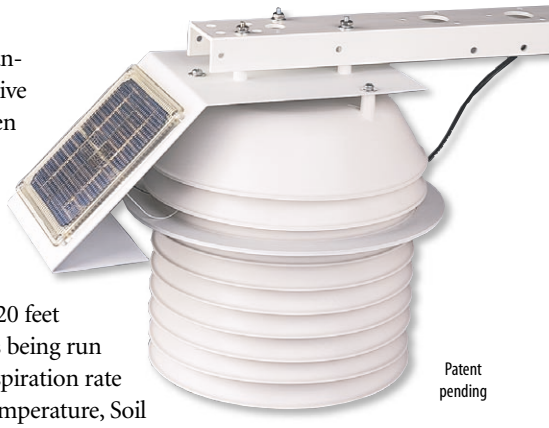
Optional tripod makes installation even easier. Brackets at the base of legs tilt to mount on roof or uneven terrain. Made of galvanized steel.

7716 Mounting Tripod

Motor-driven fan draws air through the sensor chamber.



Fan-Aspirated Radiation Shields



Patent pending

When accuracy of temperature readings is critical, add a Fan-Aspirated Radiation Shield. Combines both active and passive aspiration to minimize the effects of radiation. Motor-driven fan draws air through the sensor chamber and exhausts it through the top of the shield. For maximum natural cooling, triple-walled sensor chamber is shielded by flow-through plates. Available in AC and solar-power models. AC-power model includes AC-power adapter. Solar-power model includes solar panel and battery. Aspiration rate is 220 feet (67 m) per minute. At night, when the solar-powered fan is being run on battery power and the effects of radiation are less, the aspiration rate is 120 feet (36 m) per minute. For use with our Wireless Temperature, Soil Moisture/Temperature, or Leaf Wetness/Temperature stations. May also be used with temperature or temperature/humidity sensors from other manufacturers, including the Vaisala HMP 233 and HUMITTER® sensors.

7750 AC-Power Fan-Aspirated Radiation Shield
7755 Solar-Power Fan-Aspirated Radiation Shield

Radiation Shield

The most effective passive shelter available. Protects your Temperature Sensor from solar radiation and other sources of radiated and reflected heat. Multi-plate construction for maximum airflow. For use with our Wireless Temperature, Soil Moisture/Temperature or Leaf Wetness/Temperature stations. Assembly required.

7714 Radiation Shield

Wireless Repeater with Solar Power

Wireless Repeater with AC-Power Adapter

Wireless Repeaters

For distances up to one mile (1.5 km) or to improve reception in troublesome areas, add one or more Wireless Repeaters. Transmitting and receiving ranges for each repeater is 100' to 1000' (30 to 300 m) depending on the terrain. Use up to eight repeaters with a single wireless station, or form a network of weather stations by linking eight repeaters to eight different wireless stations. Choose from AC or solar power. Solar-power model includes solar panel, regulator circuit, and rechargeable battery.

7624 Wireless Repeater with AC-Power Adapter

7625 Wireless Repeater with Solar Power

Batteries

For use with the Vantage Pro console.

- The wireless console/receiver may be run on battery power alone. Batteries will last up to one year under normal conditions. Battery life will decrease as the number of transmitters increases. If you have three or more transmitters, use the included AC-power adapter.
- The cabled console includes an AC-power adapter. Batteries should be installed to provide backup and continued data collection during power outages.

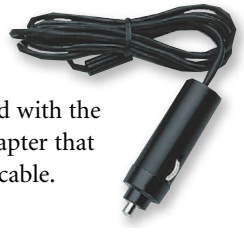
8423 Three C Batteries

Solar Power Kit

For a stand-alone outdoor system, add our Solar Power Kit. Includes solar panel, regulator circuit, and rechargeable battery.

6610 Solar Power Kit

Car/Boat/RV Lighter Cord



For powering a Vantage Pro console or console/receiver. Plugs directly into the cigarette lighter in your car, truck, RV, or boat. When used with the cabled Vantage Pro, it replaces the AC-power adapter that is included with the station. Includes 8' (2.4 m) cable.

6604 Car/Boat/RV Lighter Cord

Weather Stations

Our popular Perception II, Weather Wizard III, and Weather Monitor II are still available. And our advanced stations—GroWeather, Energy EnviroMonitor, and Health EnviroMonitor—continue to offer a wealth of special-purpose information found only in stations costing much more. For more details on any of these weather stations plus related software, accessories, and installation options, ask for our full 24-page catalog.

Perception II®

An indoor weather station requiring no installation. Temperature, barometric pressure, and humidity are shown simultaneously on one easy-to-read display. Backlit for easy viewing.

7400 Perception II

Weather Wizard III®

The most-requested features at an economical price. Includes inside and outside temperature, wind speed and direction, and wind chill.

7425 Weather Wizard III

Weather Monitor II®

A full-featured weather station. Basic model includes barometric pressure, inside and outside temperature, inside humidity, wind speed and direction, and wind chill. Complete station adds outside humidity, dew point, and daily and accumulated rainfall.

7440 Weather Monitor II

7440CS Complete Weather Monitor II Station

Weather Wizard III and Weather Monitor II include console, junction box, anemometer, temperature sensor, and power adapter.

EZ-Mount GroWeather®

Includes console with barometer, plus anemometer, rain collector, temperature and temperature/humidity sensors, solar radiation sensor, leaf wetness sensor, ET data logger, radiation shield, and weather-resistant shelter.

7450EZ EZ-Mount GroWeather, Standard

7871S GroWeatherLink Software

EZ-Mount Energy EnviroMonitor®

Includes console with barometer, plus anemometer, rain collector, temperature/humidity sensor, solar radiation sensor, radiation shield, and weather resistant shelter.

7460EZ EZ-Mount Energy EnviroMonitor, Standard

7872 Energy WeatherLink with Data Logger

EZ-Mount Health EnviroMonitor®

Includes console with barometer, plus anemometer, rain collector, temperature/humidity sensor, solar radiation sensor, UV sensor, radiation shield, and weather resistant shelter.

7470EZ EZ-Mount Health EnviroMonitor, Standard

7874 Health WeatherLink with Data Logger

All stations include:

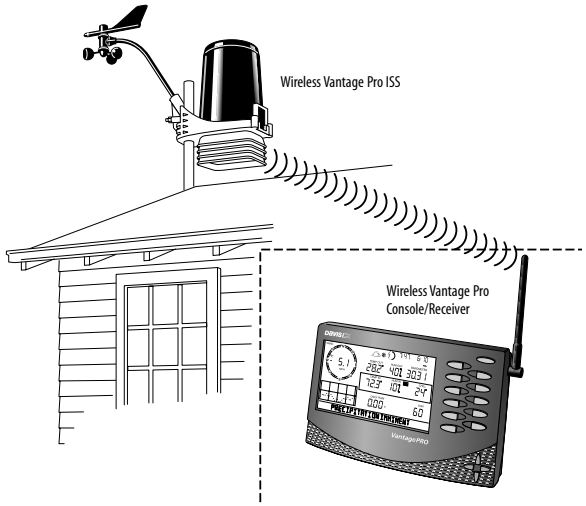
- Console with AC-power adapter.
- Reversible base—use on desk, shelf, or wall.
- Time in 12- or 24-hour format and date.
- U.S. and metric units of measure.
- Highs and lows.
- Sequential scan and display of readings.
- Alarms for selected functions.
- Detailed instruction booklet.
- **Standard Stations** feature sensors with standard 26-gauge (0.12 mm^2) cable and quick and easy cable connections.
- **EZ-Mount Stations** feature a pre-assembled sensor array with galvanized steel mounting pole and a single 100' (30 m) cable for quick and easy set up.

EZ Solar Power Kit

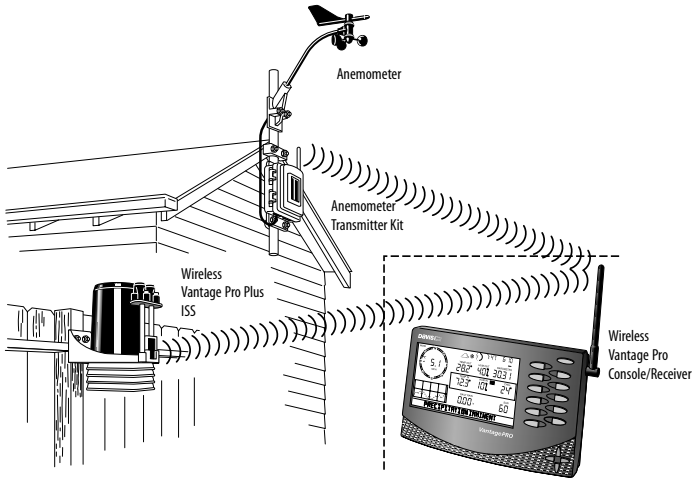
For a stand-alone outdoor system, add our Solar Power Kit. Includes solar panel, regulator circuit, and rechargeable battery.

7707 EZ Solar Power Kit

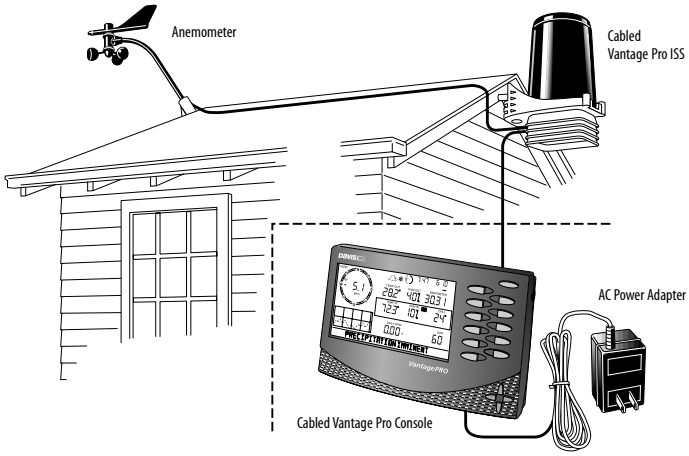
Wireless Vantage Pro



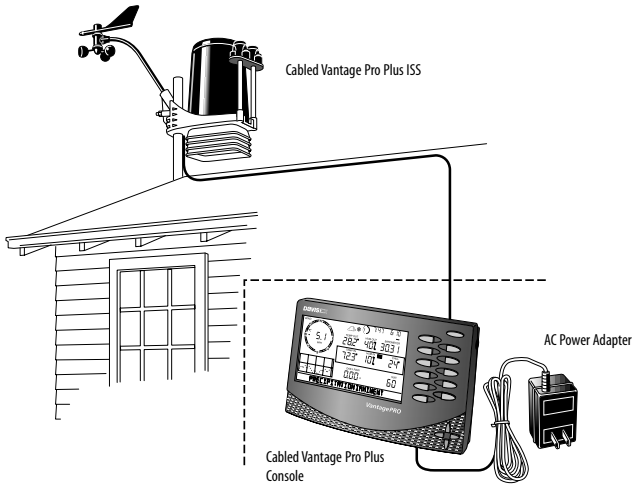
Wireless Vantage Pro Plus with Anemometer Transmitter Kit



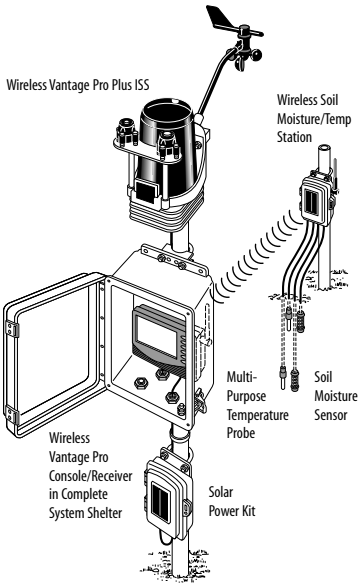
Cabled Vantage Pro with Remote Anemometer



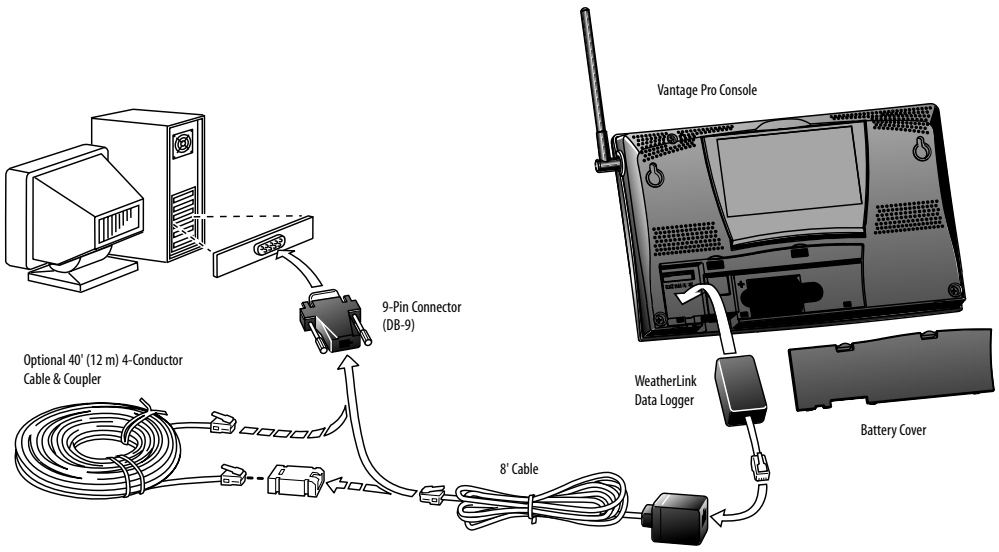
Cabled Vantage Pro Plus



Field Station with Solar Power and Soil Moisture



WeatherLink for Vantage Pro



Specifications

NIST-Traceable Sensors

In the USA, the National Institute of Standards & Technology (NIST) develops and maintains the standards of measurement to which all others are ultimately traced. Numerous calibrations, tests, and measurement assurance programs are delivered directly to about 10,000 companies. From these companies, NIST-traceable intermediate service providers are the next link in a network that joins together the makers and users of precision instruments. Davis Instruments is proud to participate in this network. Each of our weather stations is carefully manufactured in our California factory. For those users who require NIST-traceability, certification and recertification of new and previously owned sensors is now available. For a NIST-certified Vantage Pro add $200. Call, fax, or e-mail us for complete details.

Warranty

We warrant our products to be free of defects in material and workmanship for one year from date of original purchase. While we make every effort to carefully manufacture our products to the highest standards of quality, occasionally parts may be found to be missing, defective, or damaged. If you have a defective part, return the product to us, shipping charges prepaid. Include proof of purchase and a written explanation of the trouble. During the warranty period, we will, at our option, either repair or replace the product free of charge. This warranty does not cover damage due to improper installation or use, lightning, negligence, accident, or unauthorized service, or to incidental or consequential damages beyond the Davis products themselves. Implied warranties are limited in duration to the life of this limited warranty. Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental and consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights. You may have other rights, which vary from state to state.

Details, specifications, and prices are subject to change at any time without notice.

Vantage Pro Console Graphs & Alarms		Graphs								Alarms
		Current ⚠	1 min	10 Min	15 Min	Hourly	Daily	Monthly	Yearly	
Barometric Pressure	Reading	C			C	C	H,L	H,L		
	Trend									❶ ❷
ET	Evapotranspiration	T				T	T	T	T	❸
Humidity & Dewpoint	Inside Humidity	C				C	H,L	H,L		H,L
	Outside Humidity	C				C	H,L	H,L		H,L
	Dew Point	C				C	H,L	H,L		H,L
	Extra Humidity									H,L
Leaf Wetness	Leaf Wetness	C				C	H,L	H,L		H,L
Rainfall	Rain	T			T	T	T	T	T	❹ ❺
	Storm ❶									❻
	Rain Rate	H	H			H	H	H	H	H
Soil Moisture	Soil Moisture	C				C	H,L	H,L		H,L
Solar Radiation	Solar Radiation	A				A	H	H		H
Temperature	Inside Temp	C				C	H,L	H,L		H,L
	Outside Temp	C				C	H,L	H,L	H,L	H,L
	Extra Temp									H,L
Apparent Temperature	Heat Index	C				C	H	H		H
	Temp/Hum/Sun/Wind Index	C				C	H	H		H
Time & Date	Time									Y
UV Radiation	UV Radiation	A				A	H	H		H
	MED (Minimal Erythemal Dose)	T				T	T			❼
Wind	Wind Speed	A		A		A	H	H	H	H, ❽
	Direction of high wind speed	Y					Y	Y	Y	
	Dominant Wind Direction	A				A	A	A		
	Wind Chill	L				L	L	L		L

Legend:

A = Averages, H = Highs, L = Lows, T = Totals, Y = Yes, C = Current reading at end of each period

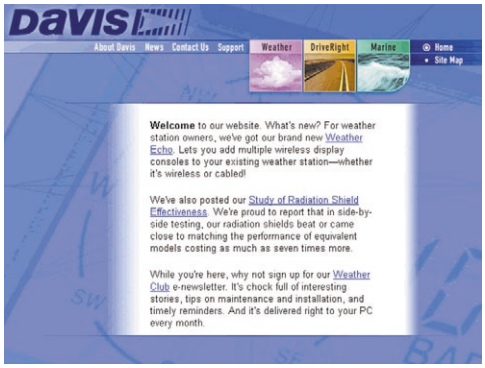
Additional Graph:

❶ Storm Graph - Graphs last 24 rain storms with start and stop dates.

Additional Alarms:

❶ Storm Warning Alarm—Specify amount of barometer's fall.
❷ Storm Clearing Alarm—Specify amount of barometer's rise.
❸ ET Alarm—Specify total amount of ET for the day.
❹ Flash Flood Alarm—Specify total amount of rainfall for current 15 minutes.
❺ 24 Hour Rain Alarm—Specify total amount of rainfall for current 24 hours.
❻ Storm Alarm—Specify total amount of rainfall for current storm.
❼ MED Alarm—Specify Daily Dose
❽ 10 Minute Average Wind Speed Alarm—Specify speed.
⚠ Current values are shown in the right-most column of graph, and are the most recent records

All graphed historical values are the last 24 on record


DAVIS
About Davis
News
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Home
Site Map
Welcome to our website. What's new? For weather station owners, we've got our brand new Weather Echo. Lets you add multiple wireless display consoles to your existing weather station—whether it's wireless or cabled!
We've also posted our Study of Radiation Shield Effectiveness. We're proud to report that in side-by-side testing, our radiation shields beat or came close to matching the performance of equivalent models costing as much as seven times more.
While you're here, why not sign up for our Weather Club e-newsletter. It's chock full of interesting stories, tips on maintenance and installation, and timely reminders. And it's delivered right to your PC every month.

Davis Instruments Web Site

Weather Club E-newsletter: Are you interested in learning more about our stations? Sign up for our Weather Club e-newsletter at http://www.davisnet.com/news/e_club_signup.asp. It's chock full of interesting stories, tips on maintenance and installation, and timely reminders. And it's delivered right to your PC every month.

Weather World Round: On our web site, you'll find link to stations as far away as Caracas, Venezuela; Tjörn, Sweden; and Keio, Japan. Check them out at: http://www.davisnet.com/weather/cool/world.asp

	Function	Standard	Sensor Required	USA Units			Metric Units		
				Resolution	Range	Accuracy (+/-)	Resolution	Range	Accuracy (+/-)
Barometric Pressure	Barometric Pressure (Elevation: -1500' to +12,000' ; -460 to +3650 m)	✓	Included in Console	0.01" Hg	26" to 32" Hg	0.05" Hg	0.1 hPa, mm Hg	880 to 1080 hPa, 660 to 810 mm	1.7 hPa, 1.3 mm Hg
	Barometric Trend (3 hour)	✓		Change ≥.06" Hg = Rapidly; ≥.02" Hg = Slowly	5 Position Arrow: Rising (Rapidly or Slowly), Steady, or Falling (Rapidly or Slowly)		Change ≥2 hPa, 1.5 mm Hg = Rapidly; ≥.7 hPa, 0.5 mm Hg = Slowly	5 Position Arrow: Rising (Rapidly or Slowly), Steady, or Falling (Rapidly or Slowly)	
ET	Evapotranspiration		Solar Radiation, Temperature/Humidity Sensor & Anemometer, or ISS	0.01"	Daily to 99.99"; Monthly & Yearly to 199.99"	5%	0.25 mm	Daily to 999.9 mm; Monthly & Yearly to 1999.9"	5%
Humidity & Dew Point	Inside Humidity	✓	Included in Console	1%	10 to 90%	5% RH	1%	10 to 90%	5% RH
	Outside Humidity	✓	Temperature/Humidity Sensor or ISS	1%	0 to 100%	3% RH	1%	0 to 100%	3% RH
	Dew Point (Overall)	✓	Temperature/Humidity Sensor or ISS	1° F	-105° to +130° F	3° F	1° C	-76° to +54° C	1.5° C
	Frost/Dew Point at High Humidity	✓	Temperature/Humidity Sensor or ISS	1° F	-105° to +130° F	2° F	1° C	-76° to +54° C	1° C
	Extra Humidity		Temperature/Humidity Sensor or ISS	1%	0 to 100%	3% RH	1%	0 to 100%	3% RH
Leaf Wetness	Leaf Wetness		Leaf Wetness Sensor	1	0 to 15	0.5	1	0 to 15	0.5
Rainfall	Daily & Storm Rainfall	✓	Rain Collector	.01"	0 to 99.99"	4%	0.25 mm	0 to 999.9 mm	4%
	Monthly & Yearly Rainfall	✓	Rain Collector	.01"	0 to 199.99"	4%	0.25 mm to 1999.9 mm; 1 mm above	0 to 19,999 mm	4%
	Rain Rate	✓	Rain Collector	.01"	up to 100"/hr.	5%	0.25 mm to 1999.9 mm; 1 mm above	2540 mm/hr.	5%
Soil Moisture	Soil Moisture		Soil Moisture Sensor	1 cb	0 to 200 cb		1 cb	0 to 200 cb	
Solar Radiation	Solar Radiation		Solar Radiation Sensor	1 W/m²	0 to 1800 W/m²	5%	1 W/m²	0 to 1800 W/m²	5%
Temperature	Inside Temperature	✓	Included in Console	0.1° F	+32° to +140° F	1° F	0.1° C	0° to +60° C	0.5° C
	Outside Temperature	✓	Temperature Sensor, Temperature Probe, Temperature/Humidity Sensor, or ISS	0.1° F	-40° to +140° F	1° F	0.1° C	-40° to +60° C	0.5° C
	Extra Temperature		Temperature Sensor or Temperature Probe	1° F	-40° to +140° F	1° F	1° C	-40° to +60° C	0.5° C
Apparent Temperature	Heat Index	✓	Temperature/Humidity Sensor or ISS	1° F	-40° to +135° F	3° F	1° C	-40° to +57° C	1.5° C
	Temp-Humidity-Sun-Wind Index		Solar Radiation Sensor, Anemometer & Temperature/Humidity Sensor, or ISS	1° F	-90° to +148° F	4° F	1° C	-68° to +64° C	2° C
Time & Date	Time	✓	Included in Console	1 min.	24 hours	15 sec./mo.	1 min.	24 hours	15 sec./mo.
	Date	✓		1 day	month/day	15 sec./mo.	1 day	day/month	15 sec./mo.
UV Radiation	UV Index		UV Radiation Sensor	0.1 Index	0 to 16 Index	8%	0.1 Index	0 to 16 Index	8%
	UV Dose		UV Radiation Sensor	0.1 MEDs to 19.9 MEDs; 1 MED above	0 to 199 MEDs	8%	0.1 MEDs to 19.9 MEDs; 1 MED above	0 to 199 MEDs	8%
Wind	Wind Direction	✓	Anemometer	1°	0° to 360°	7°	1°	0° to 360°	7°
	Compass Rose	✓	Anemometer	22.5°	16 compass pts	0.3 comp. pt.	22.5°	16 compass pts	0.3 comp. pt.
	Wind Speed (Large Cups)	✓	Anemometer	1 mph, 1 kt	2 to 120 mph; 2 to 104 kts	2 mph, 2 kts or 5% (whichever is greater)	0.5 m/s 1 kph	3 to 193 kph; 1 to 54 m/s	3 kph; 1 m/s or 5% (whichever is greater)
	Wind Speed (Small Cups)		Anemometer	1 mph, 1 kt	3 to 175 mph; 3 to 150 kts	3 mph, 3 kts or 5% (whichever is greater)	0.5 m/s 1 kph	5 to 282 kph; 1.5 to 79 m/s	5 kph; 1.5 m/s or 5% (whichever is greater)
	Wind Chill	✓	Anemometer & Temperature Probe, Temperature Sensor or Temperature/Humidity Sensor	1° F	-120° to +130° F	4° F	1° C	-84° to +54° C	2° C

ENVIRONMENTAL INFORMATION FOR HOME & INDUSTRY

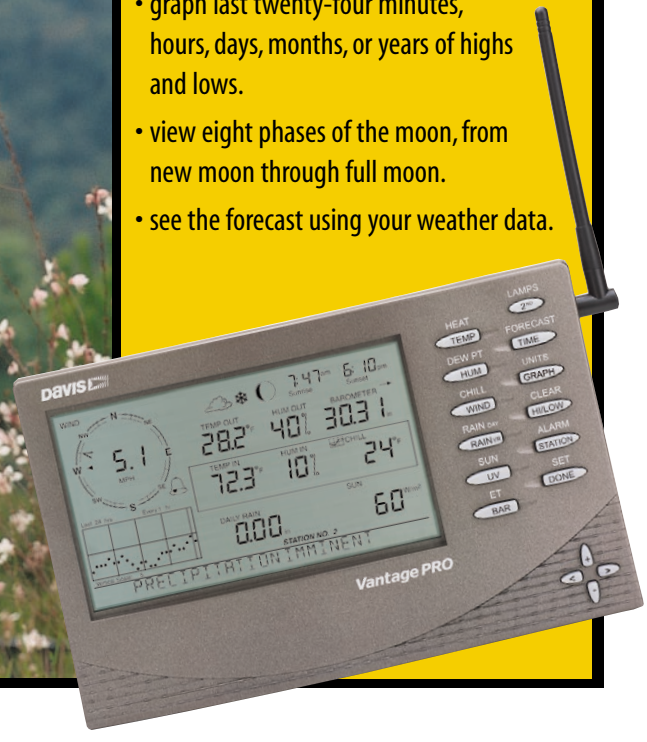
New from Davis Instruments!

VantagePro™ Wireless Weather Station

The latest in weather technology! Includes console and integrated sensor suite comprised of rain collector, temperature and humidity sensors, and anemometer. Our Wireless Vantage Pro can have a total of eight wireless transmitters reporting to a single console. Optional tripod (shown at left) makes installation easy!

With Vantage Pro you can:

- monitor inside and outside temperature.
- display daily, monthly, or yearly rainfall.
- set alarms for multiple functions.
- display wind chill, dew point, or two different heat indices.
- graph last twenty-four minutes, hours, days, months, or years of highs and lows.
- view eight phases of the moon, from new moon through full moon.
- see the forecast using your weather data.



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